

## ABSTRACT OF THE INVENTION

- A system and method for compressing data packet headers in a lossy environment comprises circuitry that
- 5 initially transmits a data packet with a full header and subsequently transmits data packets with compressed headers. The compressed headers include information that details the differences between the subsequent packets and the original full packet. Accordingly, each
- 10 subsequent packet has a header whose differences are based upon the original full header of the first packet. Accordingly, a base station transceiver system includes circuitry for transmitting and receiving data packets utilizing the described header compression algorithm.
- 15 Similarly, a mobile terminal is formed to receive and transmit data packet headers compressed in this manner.

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